

## **SERVO MOTOR CONTROL APPARATUS FOR ELECTRIC INJECTION MOLDING MACHINE**

### **ABSTRACT OF THE DISCLOSURE**

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A servo motor control apparatus comprises a motion control unit for generating a position command; a first drive amplifier connecting with the motion control unit, for receiving the command to drive a first servo motor, and forming a first position control loop together with the motion control unit and the first servo motor; and at least one  
10 second drive amplifier connecting with the motion control unit, for receiving the command to drive at least one second servo motor, and forming a second position control loop together with the motion control unit and the second servo motor. The motion control unit comprises at least one synchronous controller, which receives and performs calculations to a difference value between position errors of the first and  
15 second position control loops for serving as speed and torque feed forward compensations to keep said second servo motor synchronous with the first servo motor.